

INTELLIGENT DEFAULT LOCALITY SELECTION FOR MEMORY OBJECTS

ABSTRACT OF THE DISCLOSURE

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One embodiment disclosed relates to a method of selecting a default locality for a memory object requested by a process running on a CPU in a multiprocessor system. A determination is made as to whether the memory object comprises a shared-memory object. If the memory object comprises said
10 shared-memory object, then the default locality is selected to be within interleaved memory in the system. If not, a further determination may be made as to whether the memory object comprises a stack-type object. If the memory object comprises said stack-type object, then the default locality may be selected to be within local memory at a same cell as the requesting CPU. If not, a further
15 determination may be made as to whether the requesting process has threads running on multiple cells.